

Geospatial Data and Mapping Websites

Need help?

If you need help finding, ordering, or using USGS products, or if you have any questions about USGS science, contact USGS Science Information Services at:
Phone: 1-888-ASK-USGS (1-888-275-8747)
E-mail form: <http://www.usgs.gov/ask>

----- FREE Spatial Data from USGS & Partners -----

The National Map

Download free, seamless orthoimagery, elevation, geographic names, hydrography, boundaries, transportation, structures, and land cover for the entire U.S. Offers interoperability with ArcGIS and viewers like Google Earth, popular GIS tools, and other advanced features.
<http://nationalmap.gov/viewers.html>

Seamless Data Warehouse*

Download free seamless USGS imagery, elevation, and land cover data. Includes NED 30m (10m and 3m where available), NLCD land cover, high-resolution orthoimagery of urban areas, and more. Data extracted at user-specified boundaries.
<http://seamless.usgs.gov>

Geodata.gov*

Portal for the Geospatial One-Stop (GOS) government initiative. Access geospatial information from all levels of government and the public sector through one comprehensive portal. A marketplace for sharing and accessing data and other information resources. <http://gos2.geodata.gov>

National Atlas of the United States

Interactive map with hundreds of free geospatial data layers for download. Most data are designed to depict patterns and trends on a national scale. Also has page-size maps "Printable Maps" that are ready for easy download and/or printing. An outstanding educational tool! <http://nationalatlas.gov>
<http://www.nationalatlas.gov/atlasftp.html> (data download)

Emergency Operations Portal*

Critical pre- and post-disaster satellite and aerial images for national and international disaster preparations, rescue and relief operations, damage assessments, and reconstruction.
<http://eoportal.cr.usgs.gov/EO>

Hazards Data Distribution System (HDDS)*

A dynamic online map interface that can be used to view and download USGS datasets for national or international disasters including floods, hurricanes, and earthquakes.
<http://hdds.usgs.gov/hdds>

Free Digital Topographic Map Quadrangles

Download free USGS topographic map quadrangles in GeoPDF format through the USGS Store. Files average 10-17 MB. Also download the next generation "US Topo" maps.
<http://store.usgs.gov> (Click on "Map Locator")

Bulk Download Tool for Free Landsat Data

http://landsat.usgs.gov/Landsat_Search_and_Download.php

Free USGS Satellite Data and Air Photography*

The entire Landsat satellite archive and NAPP, NHAP, and AHAP air photography are now available for free download. Download an entire scene containing all bands and metadata in a single zipped file. Some high-resolution scans of air photography still retain a cost. <http://earthexplorer.usgs.gov>

TerraLook*

Users create their own collections of georeferenced JPEG satellite images that allow for visual interpretation and comparison without the need for complicated software. All downloads are free. <http://terralook.cr.usgs.gov>

Center for LIDAR Info. Coord. & Knowledge (CLICK)

LIDAR point cloud downloads only. No processing or bare earth filtering has been performed. Data is delivered in USGS quarter-quad tiles in either LAS binary or ASCII text format. Data coverage is very limited. <http://lidar.cr.usgs.gov>

USGS Quaternary Fault and Fold Database

Geologic, geomorphic, and geographic information for about 2,000 Quaternary faults in the U.S. Download shape files and Google Earth files.
<http://earthquake.usgs.gov/regional/qfaults>

Mineral Resources On-Line Spatial Data*

A source for regional and global geology, geochemistry, geophysics, and mineral resource maps and data.
<http://mrdata.usgs.gov>

Geospatial Data Gateway

Download free environmental and natural resources data by county, state, place, bounding box, or interactive map.
<http://datagateway.nrcs.usda.gov>

Global Land Survey 2010 (GLS2010)

NASA and the USGS have partnered to develop the GLS2010, a new global land data set with core acquisition dates of 2009-2010. The data will consist of both Landsat TM and ETM+ images. http://landsat.usgs.gov/science_GLS.php

USGS Energy Resources Program Data*

Data from oil and gas assessments in the U.S. and selected international locations. Some sites include GIS layers for geology, bathymetry, gravity anomalies, and more.

<http://energy.usgs.gov/search.html>

Maps of America's Submerged Lands

A portal to published USGS maps, reports, and digital data that depict the bathymetry, surficial geology, and/or subsurface structure of selected submerged U.S. areas.

<http://woodshole.er.usgs.gov/data/submergedlands>

Coastal & Marine Interactive Map Server

GIS data and metadata for past and current projects.

<http://coastalmap.marine.usgs.gov>

-----Purchase USGS Products-----

USGS Store*

A quick and easy way to find and order printed USGS products including paper maps, books, and other publications; and to download free digital topographic maps. Click on "Education Products" to browse popular maps. Click on "Map Locator" to download free 1:24K, 1:100K and 1:250K topographic maps for anywhere in the U.S.

<http://store.usgs.gov>

EarthExplorer*

Download or order digital satellite imagery, digital aerial photos, and cartographic products. Locate products by name, coordinates, or define on map. Some products are free, some are not. <http://earthexplorer.usgs.gov>

----- Other Sites of Interest -----

USGS Education Map Catalog*

Browse popular USGS printed maps.

<http://store.usgs.gov> (click on "Education Products")

USGS Teacher Resources for Geography

USGS resources for teaching and learning about maps.

<http://education.usgs.gov/common/lessons/index.html>

USGS Lessons for Geographic Information Systems (GIS)

Explore lessons and USGS resources for geospatial data.

<http://education.usgs.gov/common/lessons/GIS/gis.html>

Significant Topographic Changes in the United States

A national inventory of significant topographic changes based on seamless multitemporal elevation data and land cover data. <http://topochange.cr.usgs.gov>

Topographic Salad-Tray Model

Instructions for an easy and highly visual classroom activity to demonstrate topographic maps. Create 3-D topographic models using clear plastic salad trays.

http://online.wr.usgs.gov/outreach/topo_instructions.html

Geographic Names Information System (GNIS)

The GNIS contains information about physical and cultural geographic features of all types in the United States and defines the feature location by state, county, USGS topographic map, and geographic coordinates.

<http://gnis.usgs.gov>

USGS Publications Warehouse*

Search bibliographic citations for USGS publications. Links to online sources for many publications, including maps.

<http://pubs.usgs.gov>

USGS Natural Hazards Support System (NHSS)*

Monitor and analyze natural hazards events as they are occurring anywhere on the earth. Dynamic links connect to additional information. <http://nhss.cr.usgs.gov>

GeoMac - Geospatial Multiagency Coordination

Access online maps of current fire locations and perimeters in the conterminous 48 States and Alaska. Designed to give fire managers a nearly real-time and detailed visual representation of active fires. Fire perimeter data is updated daily.

<http://geomac.usgs.gov>

USGS Planetary GIS Web Server (PIGWAD)

GIS tools for analyses of planetary datasets.

<http://webgis.wr.usgs.gov>

EarthNow!

A mesmerizing, near-real time viewer that displays data received from the Landsat 5 and Landsat 7 satellites as they pass over the United States. <http://earthnow.usgs.gov>

USGS EROS Image Gallery*

A collection of satellite images that record beautiful sights and scenes that stir the imagination. Includes the spectacular "Earth as Art" collections and state mosaics. Free high-resolution download of all images (paper copies are available through the USGS Store at <http://store.usgs.gov>).

<http://edc.usgs.gov/imagegallery>

Gallery of Landsat Satellite Images

View interesting features and events captured by the Landsat satellites. <http://landsat.usgs.gov/gallery.php>

Earthshots: Satellite Images of Environmental Change*

Before-and-after satellite images showing recent environmental events. Includes detailed descriptions, list of references, and a question/answer. Great educational tool.

<http://earthshots.usgs.gov> and

http://geography.usgs.gov/feature/show_category.php?cat=3

DLGV32 Pro

Free software for viewing USGS digital data (DRGs, DLGs, DOQs, NED) and doing very limited manipulation and analysis. PC only.

<http://mcmcweb.er.usgs.gov/drc/dlgv32pro>

*Includes international data or information